

**EAST Search History****EAST Search History (Prior Art)**

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp          |
|-------|------|--|--|------------------|---------|---------------------|
| L1    | 0    | (cluster SAME register SAME (functional OR execution) unit SAME control SAME pipeline register) AND "712".clas. AND @pd>= "20110121" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2011/05/03<br>10:16 |
| L2    | 0    | (cluster).ti. AND cluster AND pipeline register AND "712".clas. AND @pd>= "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2011/05/03<br>10:17 |
| L3    | 0    | (cluster\$3).ti. AND cluster\$3 AND pipeline\$1 NEAR2 register AND "712".clas. AND @pd>= "20110121"                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2011/05/03<br>10:17 |
| L4    | 2    | (cluster).ti. AND "712".clas. AND @pd>= "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2011/05/03<br>10:17 |
| L5    | 1    | (cluster\$3).ab. AND (register SAME distance) AND @pd>= "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2011/05/03<br>10:17 |
| L6    | 0    | 712/214.ccls. AND cluster\$3 NEAR5 distance NEAR5 register AND @pd>= "20110121"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2011/05/03<br>10:18 |
| L7    | 5    | "712".clas. AND cluster\$3 SAME synchroniz\$5 AND @pd>= "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2011/05/03<br>10:18 |
| L8    | 0    | "712".clas. AND cluster\$3 SAME  | US-PGPUB;  | ADJ              | ON      | 2011/05/03          |

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|     |    | (instruction NEAR2 synchroniz\$5) AND<br>@pd> = "20110121"   | USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB              |     |    | 10:18               |
| L9  | 0  | "712".clas. AND (cluster\$3 NEAR3<br>distance) AND @pd> = "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:19 |
| L10 | 0  | "712".clas. AND (instruction NEAR4<br>issu\$3 NEAR4 pipeline register) AND<br>@pd> = "20110121"                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:19 |
| L11 | 0  | "712".clas. AND (distance SAME<br>cluster\$3 SAME instruction) AND<br>@pd> = "20110121"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:19 |
| L12 | 13 | "712".clas. AND cluster\$3 AND<br>(instruction\$3 OR control\$4) (register<br>OR buffer) AND @pd> = "20110121"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:19 |
| L13 | 2  | "712".clas. AND cluster\$3 AND<br>(instruction\$3 OR control\$4) (register<br>OR buffer) AND distance AND<br>@pd> = "20110121" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:20 |
| L14 | 0  | "712".clas. AND (pipeline register<br>NEAR10 distance) AND<br>@pd> = "20110121"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:20 |
| L15 | 0  | "712".clas. AND (register NEAR10<br>distance) AND cluster\$3 AND<br>@pd> = "20110121"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:21 |
| L16 | 0  | "712/214".ccls. AND (instruction<br>(buffer OR register) NEAR4 (tim\$3 OR<br>latency OR delay)) AND<br>@pd> = "20110121"       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;            | ADJ | ON | 2011/05/03<br>10:21 |

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|     |   |  | IBM_TDB  |     |    |                     |
| L17 | 0 | "712/214".ccls. AND (instruction<br>(buffer OR register) NEAR4 (clock<br>cycle)) AND @pd> = "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/05/03<br>10:21 |
| L18 | 0 | "712/214".ccls. AND pipeline register<br>AND @pd> = "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/05/03<br>10:21 |
| L19 | 0 | "712".ccls. AND (pipeline register<br>SAME tim\$3 OR latency) AND<br>@pd> = "20110121"                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/05/03<br>10:22 |
| L20 | 3 | "712".clas. AND (pipeline register<br>NEAR10 (tim\$3 OR latency OR<br>throughput)) AND @pd> = "20110121" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/05/03<br>10:22 |
| L21 | 4 | pipeline NEAR20 synchroni\$7 NEAR20<br>(distance OR length) AND<br>@pd> = "20110121"                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/05/03<br>10:23 |
| L22 | 0 | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 skew AND<br>@pd> = "20110121"                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/05/03<br>10:24 |
| L23 | 2 | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 (clock OR signal) delay AND<br>@pd> = "20110121"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/05/03<br>10:24 |
| L24 | 0 | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 time NEAR10 align\$3 AND<br>@pd> = "20110121"            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/05/03<br>10:24 |
| L25 | 1 | (712/20-22).ccls. AND pipeline register<br>AND @pd> = "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;                                | ADJ | ON | 2011/05/03<br>10:24 |

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|     |    |  | JPO;<br>DERWENT;<br>IBM TDB  |     |    |                     |
| L26 | 3  | (712/20-22).ccls. AND propagation<br>AND @pd> = "20110121"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:25 |
| L27 | 0  | (712/20-22).ccls. AND propagation<br>(time OR delay) AND<br>@pd> = "20110121"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/05/03<br>10:25 |
| S1  | 1  | (cluster SAME register SAME<br>(functional OR execution) unit SAME<br>control SAME pipeline register) AND<br>"712".clas. | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>10:18 |
| S2  | 0  | (cluster).ti. AND cluster AND pipeline<br>register AND "712".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>10:18 |
| S3  | 5  | (cluster\$3).ti. AND cluster\$3 AND<br>pipeline\$1 NEAR2 register AND<br>"712".clas.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>10:28 |
| S4  | 29 | (cluster).ti. AND "712".clas.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>10:28 |
| S5  | 58 | (cluster\$3).ti. AND "712".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:20 |
| S6  | 0  | (cluster\$3).ti. AND (register SAME<br>distance) "712".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:03 |
| S7  | 0  | (cluster\$3).ab. AND (register SAME<br>distance) "712".clas.   | US-PGPUB;<br>USPAT;  | ADJ | ON | 2006/11/29<br>11:06 |

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|     |     |   | USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB                        |     |    |                     |
| S8  | 1   | 712/214.ccls. AND cluster\$3 NEAR5 distance NEAR5 register                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:08 |
| S9  | 82  | "712".clas. AND cluster\$3 SAME synchroniz\$5   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:13 |
| S10 | 4   | "712".clas. AND cluster\$3 SAME (instruction NEAR2 synchroniz\$5)                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:14 |
| S11 | 22  | "712".clas. AND (cluster\$3 NEAR3 distance)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:21 |
| S12 | 2   | "712".clas. AND (instruction NEAR4 issu\$3 NEAR4 pipeline register)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:22 |
| S13 | 8   | "712".clas. AND (distance SAME cluster\$3 SAME instruction)                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:31 |
| S14 | 365 | "712".clas. AND cluster\$3 AND (instruction\$3 OR control\$4) (register OR buffer)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:32 |
| S15 | 85  | "712".clas. AND cluster\$3 AND (instruction\$3 OR control\$4) (register OR buffer) AND distance | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>11:35 |

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| S16 | 2   | "712".clas. AND (pipeline register NEAR10 distance)                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>11:36 |
| S17 | 7   | "712".clas. AND (register NEAR10 distance) AND cluster\$3                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>11:39 |
| S18 | 129 | "712".clas. AND (cluster\$3 near4 control)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>11:42 |
| S19 | 395 | "712".clas. AND (instruction (buffer OR register) NEAR4 tim\$3)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>11:44 |
| S20 | 439 | "712".clas. AND (instruction (buffer OR register) NEAR4 (tim\$3 OR latency OR delay))     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>11:45 |
| S21 | 10  | "712/214".ccls. AND (instruction (buffer OR register) NEAR4 (tim\$3 OR latency OR delay)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>11:46 |
| S22 | 4   | "712/214".ccls. AND (instruction (buffer OR register) NEAR4 (clock cycle))                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>12:49 |
| S23 | 11  | "712/214".ccls. AND pipeline register   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>12:52 |
| S24 | 0   | "712".ccls. AND (pipeline register SAME tim\$3 OR latency)                                | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;                        | ADJ | ON | 2006/11/29<br>12:54 |

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|     |      |   | DERWENT;<br>IBM TDB  |     |    |                     |
| S25 | 4673 | "712".clas. AND (pipeline register SAME tim\$3 OR latency OR throughput)                            | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>13:16 |
| S26 | 4627 | "712".clas. AND (pipeline register NEAR10 tim\$3 OR latency OR throughput)                          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>13:16 |
| S27 | 114  | "712".clas. AND (pipeline register NEAR10 (tim\$3 OR latency OR throughput))                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>13:16 |
| S28 | 0    | "712".clas. AND "cluster.ti" AND (point to point OR point\$to\$point OR full\$1 connect\$4) AND bus | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:03 |
| S29 | 0    | "712".clas. AND "cluster.ti" AND (point to point OR point\$to\$point OR full\$1 connect\$4)         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:03 |
| S30 | 0    | (cluster\$3).ti. AND (point NEAR4 interconnect) AND"712".clas.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:23 |
| S31 | 0    | (cluster\$3).ti. AND (direct NEAR4 interconnect) AND"712".clas.                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:23 |
| S32 | 2    | (cluster\$3).ti. AND (direct\$2 NEAR4 interconnect) AND "712".clas.                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:23 |
| S33 | 8    | (cluster\$3).ti. AND (full\$1 NEAR4 \$5connect\$4) AND "712".clas.                                  | US-PGPUB;<br>USPAT;<br>USOCR;  | ADJ | ON | 2006/11/29<br>15:28 |

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|     |      |  | FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB                                  |     |    |                     |
| S34 | 1    | (cluster\$3).ti. AND (complete NEAR4<br>\$5connect\$4) AND "712".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:31 |
| S35 | 47   | (cluster\$3).ti. AND bus AND<br>"712".clas.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:31 |
| S36 | 8    | (cluster\$3).ti. AND (bus NEAR5<br>instruction) AND "712".clas.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:48 |
| S37 | 58   | (cluster\$3).ti. AND "712".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>15:50 |
| S38 | 47   | (cluster\$3).ti. AND bus AND<br>"712".clas.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>16:20 |
| S39 | 19   | ("4228497"   "5268995"   "5301340"  <br>"5467476"   "5530817"   "5542059"  <br>"5657291"   "5721868"   "5761475"  <br>"5764943"   "5778248"   "5790827"  <br>"5901301"   "6076159"  <br>"6170051").PN. OR<br>("6615338").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | ADJ | ON | 2006/11/29<br>16:13 |
| S40 | 13   | (cluster\$3).ti. AND control signal AND<br>"712".clas.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>16:20 |
| S41 | 3564 | cluster AND (point\$1to\$1point OR<br>point to point OR full\$1 \$5connect\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2006/11/29<br>16:28 |
| S42 | 44   | "712".clas. AND cluster SAME   | US-PGPUB;  | ADJ | ON | 2006/11/29          |

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|     |     | (point\$1to\$1point OR point to point<br>OR full\$1 \$5connect\$3)       | USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB              |     |    | 16:29               |
| S43 | 7   | ("4270594"   "4833596"  <br>"5239654").PN. OR<br>("6269437").URPN.       | US-PGPUB;<br>USPAT;<br>USOCR   | ADJ | ON | 2006/11/29<br>17:16 |
| S44 | 63  | VLIW SAME cluster AND "712".clas.  | US-PGPUB;<br>USPAT;<br>USOCR   | ADJ | ON | 2006/11/29<br>17:25 |
| S45 | 124 | VLIW AND (cluster SAME bus\$2) AND<br>"712".clas.                        | US-PGPUB;<br>USPAT;<br>USOCR   | ADJ | ON | 2006/11/29<br>17:25 |
| S46 | 97  | (VLIW AND (cluster SAME bus\$2) AND<br>"712".clas.) NOT S44              | US-PGPUB;<br>USPAT;<br>USOCR   | ADJ | ON | 2006/11/29<br>17:26 |
| S47 | 124 | VLIW AND cluster AND (control bus<br>OR instruction bus)                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>17:45 |
| S48 | 63  | VLIW AND cluster AND (control bus<br>OR instruction bus) NOT S46         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>17:48 |
| S49 | 166 | (cluster.ti. OR cluster.ab.) AND<br>(control bus OR instruction bus)     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2006/11/29<br>17:48 |
| S50 | 302 | (fully connected network) OR (fully-<br>connected network)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/03/21<br>16:03 |
| S51 | 302 | (fully connected network) OR (fully-<br>connected network) AND cluster   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/03/21<br>16:04 |
| S52 | 44  | ((fully connected network) OR (fully-<br>connected network)) AND cluster | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/03/21<br>16:04 |

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| S53 | 8   | ((fully connected network) OR (fully-connected network)) SAME cluster   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2007/03/21<br>16:04 |
| S54 | 3   | "20060155956"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/10/06<br>19:11 |
| S55 | 176 | "4720780"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/10/06<br>19:13 |
| S56 | 0   | (cluster SAME register SAME (functional OR execution) unit SAME control SAME pipeline register) AND "712".clas. AND @pd> = "20061129" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/10/07<br>11:15 |
| S57 | 1   | (cluster).ti. AND cluster AND pipeline register AND "712".clas. AND @pd> = "20061129"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/10/07<br>11:16 |
| S58 | 2   | (cluster\$3).ti. AND cluster\$3 AND pipeline\$1 NEAR2 register AND "712".clas. AND @pd> = "20061129"                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/10/07<br>11:16 |
| S59 | 33  | (cluster).ti. AND "712".clas. AND @pd> = "20061129"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/10/07<br>11:17 |
| S60 | 35  | (cluster\$3).ab. AND (register SAME distance) AND @pd> = "20061129"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2010/10/07<br>11:19 |
| S61 | 0   | 712/214.ccls. AND cluster\$3 NEAR5 distance NEAR5 register AND @pd> = "20061129"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;                        | ADJ | ON | 2010/10/07<br>11:21 |

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|     |     |   | DERWENT;<br>IBM TDB  |     |    |                     |
| S62 | 42  | "712".clas. AND cluster\$3 SAME synchroniz\$5 AND @pd> = "20061129"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:21 |
| S63 | 2   | "712".clas. AND cluster\$3 SAME (instruction NEAR2 synchroniz\$5) AND @pd> = "20061129"                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:23 |
| S64 | 8   | "712".clas. AND (cluster\$3 NEAR3 distance) AND @pd> = "20061129"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:23 |
| S65 | 1   | "712".clas. AND (instruction NEAR4 issu\$3 NEAR4 pipeline register) AND @pd> = "20061129"                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:24 |
| S66 | 4   | "712".clas. AND (distance SAME cluster\$3 SAME instruction) AND @pd> = "20061129"                                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:24 |
| S67 | 206 | "712".clas. AND cluster\$3 AND (instruction\$3 OR control\$4) (register OR buffer) AND @pd> = "20061129"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:25 |
| S68 | 37  | "712".clas. AND cluster\$3 AND (instruction\$3 OR control\$4) (register OR buffer) AND distance AND @pd> = "20061129" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:25 |
| S69 | 0   | "712".clas. AND (pipeline register NEAR10 distance) AND @pd> = "20061129"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:26 |
| S70 | 10  | "712".clas. AND (register NEAR10 distance) AND cluster\$3 AND @pd> = "20061129"                                       | US-PGPUB;<br>USPAT;<br>USOCR;  | ADJ | ON | 2010/10/07<br>11:26 |

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|     |      |  | FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB                                  |     |    |                     |
| S71 | 12   | "712/214".ccls. AND (instruction<br>(buffer OR register) NEAR4 (tim\$3 OR<br>latency OR delay)) AND<br>@pd> = "20061129" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:28 |
| S72 | 1    | "712/214".ccls. AND (instruction<br>(buffer OR register) NEAR4 (clock<br>cycle)) AND @pd> = "20061129"                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:28 |
| S73 | 12   | "712/214".ccls. AND pipeline register<br>AND @pd> = "20061129"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:28 |
| S74 | 0    | "712".ccls. AND (pipeline register<br>SAME tim\$3 OR latency) AND<br>@pd> = "20061129"                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:29 |
| S75 | 41   | "712".clas. AND (pipeline register<br>NEAR10 (tim\$3 OR latency OR<br>throughput)) AND @pd> = "20061129"                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:30 |
| S76 | 10   | pipeline NEAR20 synchroni\$7 NEAR20<br>distance  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:34 |
| S77 | 58   | pipeline NEAR20 synchroni\$7 NEAR20<br>(distance OR length)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:34 |
| S78 | 39   | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 skew   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:41 |
| S79 | 1306 | pipelin\$3 NEAR10 (register OR latch)  | US-PGPUB;  | ADJ | ON | 2010/10/07          |

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|     |     | NEAR10 delay   | USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB              |     |    | 11:41               |
| S80 | 21  | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 (clock OR signal) delay  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:42 |
| S81 | 5   | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 time NEAR10 align\$3   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:43 |
| S82 | 16  | (712/20-22).ccls. AND pipeline register  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:45 |
| S83 | 17  | ("4314349"   "4439839"   "4481580"   "5056000"   "5187795"   "5418952"   "5471592"   "5481736"   "5497465"   "5581777"   "5606707").PN. OR ("5729758").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | ADJ | ON | 2010/10/07<br>11:51 |
| S84 | 108 | (712/20-22).ccls. AND propagation  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:51 |
| S85 | 52  | (712/20-22).ccls. AND propagation (time OR delay)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2010/10/07<br>11:52 |
| S86 | 0   | (cluster SAME register SAME (functional OR execution) unit SAME control SAME pipeline register) AND "712".clas. AND @pd> = "20101007"                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:14 |
| S87 | 0   | (cluster).ti. AND cluster AND pipeline register AND "712".clas. AND @pd> = "20101007"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:14 |
| S88 | 0   | (cluster\$3).ti. AND cluster\$3 AND  | US-PGPUB;  | ADJ | ON | 2011/01/21          |

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|     |   | pipeline\$1 NEAR2 register AND "712".clas. AND @pd> = "20101007"                          | USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB              |     |    | 16:17               |
| S89 | 3 | (cluster).ti. AND "712".clas. AND @pd> = "20101007"                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:17 |
| S90 | 3 | (cluster\$3).ab. AND (register SAME distance) AND @pd> = "20101007"                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:18 |
| S91 | 0 | 712/214.ccls. AND cluster\$3 NEAR5 distance NEAR5 register AND @pd> = "20101007"          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:18 |
| S92 | 4 | "712".clas. AND cluster\$3 SAME synchroniz\$5 AND @pd> = "20101007"                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:19 |
| S93 | 0 | "712".clas. AND cluster\$3 SAME (instruction NEAR2 synchroniz\$5) AND @pd> = "20101007"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:19 |
| S94 | 1 | "712".clas. AND (cluster\$3 NEAR3 distance) AND @pd> = "20101007"                         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:19 |
| S95 | 0 | "712".clas. AND (instruction NEAR4 issu\$3 NEAR4 pipeline register) AND @pd> = "20101007" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:20 |
| S96 | 0 | "712".clas. AND (distance SAME cluster\$3 SAME instruction) AND @pd> = "20101007"         | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;            | ADJ | ON | 2011/01/21<br>16:20 |

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|      |    |   | IBM_TDB  |     |    |                     |
| S97  | 17 | "712".clas. AND cluster\$3 AND (instruction\$3 OR control\$4) (register OR buffer) AND @pd> = "20101007"              | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:21 |
| S98  | 0  | "712".clas. AND cluster\$3 AND (instruction\$3 OR control\$4) (register OR buffer) AND distance AND @pd> = "20101007" | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:22 |
| S99  | 0  | "712".clas. AND (pipeline register NEAR10 distance) AND @pd> = "20101007"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:22 |
| S100 | 1  | "712".clas. AND (register NEAR10 distance) AND cluster\$3 AND @pd> = "20101007"                                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:23 |
| S101 | 2  | "712/214".ccls. AND (instruction (buffer OR register) NEAR4 (tim\$3 OR latency OR delay)) AND @pd> = "20101007"       | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:23 |
| S102 | 1  | "712/214".ccls. AND (instruction (buffer OR register) NEAR4 (clock cycle)) AND @pd> = "20101007"                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:24 |
| S103 | 0  | "712/214".ccls. AND pipeline register AND @pd> = "20101007"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:24 |
| S104 | 0  | "712".ccls. AND (pipeline register SAME tim\$3 OR latency) AND @pd> = "20101007"                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2011/01/21<br>16:24 |
| S105 | 2  | "712".clas. AND (pipeline register NEAR10 (tim\$3 OR latency OR throughput)) AND @pd> = "20101007"                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;                                | ADJ | ON | 2011/01/21<br>16:25 |

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|      |   |   | JPO;<br>DERWENT;<br>IBM TDB  |     |    |                     |
| S106 | 0 | pipeline NEAR20 synchroni\$7 NEAR20<br>distance AND @pd> = "20101007"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:25 |
| S107 | 0 | pipeline NEAR20 synchroni\$7 NEAR20<br>(distance OR length) AND<br>@pd> = "20101007"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:26 |
| S108 | 1 | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 skew AND<br>@pd> = "20101007"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:26 |
| S109 | 1 | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 (clock OR signal) delay AND<br>@pd> = "20101007"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:27 |
| S110 | 1 | pipelin\$3 NEAR10 (register OR latch)<br>NEAR10 time NEAR10 align\$3 AND<br>@pd> = "20101007"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:28 |
| S111 | 1 | (712/20-22).ccls. AND pipeline register<br>AND @pd> = "20101007"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:29 |
| S112 | 0 | (("4314349"   "4439839"   "4481580"<br>  "5056000"   "5187795"   "5418952"  <br>"5471592"   "5481736"   "5497465"  <br>"5581777"   "5606707").PN. OR<br>("5729758").URPN.) AND<br>@pd> = "20101007" | US-PGPUB;<br>USPAT;<br>USOCR   | ADJ | ON | 2011/01/21<br>16:30 |
| S113 | 3 | (712/20-22).ccls. AND propagation<br>AND @pd> = "20101007"  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB | ADJ | ON | 2011/01/21<br>16:30 |
| S114 | 1 | (712/20-22).ccls. AND propagation<br>(time OR delay) AND<br>@pd> = "20101007"   | US-PGPUB;<br>USPAT;<br>USOCR;  | ADJ | ON | 2011/01/21<br>16:31 |

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|  |  |  | FPRS; EPO;<br>JPO;<br>DERWENT;<br>IBM TDB |  |  |  |  |
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